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NUV 7 - 2007

Customer No.: 31561

Application No.: 10/709,956 Docket No.: 13565-US-PA

AMEDMENTS

To the Claims:

1. (original) An earphone structure, comprising:

a case;

a main speaker and a plurality of sub-speakers, which are installed inside the case;

a composite chamber, wherein the sub-speakers are disposed on the composite

chamber for forming a composite room, such that the sound wave generated by the sub-

speakers forms a composite sound field, and the sound wave generated by the sub-speakers

as well as the sound wave generated by the main speaker are propagated out of the

earphone; and

a cover, wherein the cover and the case jointly cover the main speaker and the sub-

speakers for forming the earphone structure.

2. (original) The earphone structure of claim 1, wherein the sub-speakers comprise

a first channel speaker and a second channel speaker, which are disposed on two opposite

sides of the composite chamber.

3. (original) The earphone structure of claim 2, wherein a position where the first

channel speaker is disposed at and a position where the second channel speaker is disposed

at are not symmetrical.

4. (original) The earphone structure of claim 2, wherein the sub-speakers further

comprises a subwoofer speaker.

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5. (original) The earphone structure of claim 4, wherein the subwoofer speaker is disposed on a back side of the composite chamber.

6. (original) The earphone structure of claim 1, wherein the composite chamber is a hollow column.

7-15. (canceled)

16. (original) The earphone structure of claim 1, wherein the earphone structure receives a signal which has been processed by a sound field simulation process for generating a simulation sound field by the sub-speakers and the main speaker inside the.

17. (original) The earphone structure of claim 16, wherein the sound field simulation process is designed based on a frequency-divided point of the sub-speakers.

18. (original) The earphone structure of claim 16, wherein the sound field simulation process is designed based on a frequency-divided point of the sub-speakers and a delay process.

19-54. (canceled)

55. (original) An earphone structure comprising a composite chamber and being disposed inside a case and a cover, wherein the case and the cover jointly cover the composite chamber for forming the earphone structure, and the composite chamber receives a plurality of sound source signals and forms a composite room, such that a composite sound field is formed by the sound source signals.

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56. (original) The earphone structure of claim 55, wherein the sound source signals at least comprise a first sound source signal and a second sound source signal, which are originated at opposite sides of the composite chamber, respectively.

57. (original) The earphone structure of claim 56, wherein a location where the first sound source signal is originated at and a location where the second sound source signal is originated at on the opposite sides of the composite chamber are not symmetrical.

58. (original) The earphone structure of claim 56, wherein the sound source signals further comprise at least a subwoofer sound source signal.

59. (original) The earphone structure of claim 58, wherein the subwoofer sound source signal is originated at a back side of the composite chamber.

60. (original) The earphone structure of claim 55, wherein the sound source signals are the signals which have been processed by a sound field simulation process for generating a simulation sound field in the composite chamber.

61. (original) The earphone structure of claim 60, wherein the sound field simulation process is designed based on a frequency-divided point of the sound source signals.

62. (original) The earphone structure of claim 60, wherein the sound field simulation process is designed based on a frequency-divided point of the sound source signals and a delay process.

63. (original) An earphone structure comprising a composite chamber and being installed inside a case and a cover, wherein the case and the cover jointly cover the

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composite chamber for forming the earphone structure, and the composite chamber receives a plurality of sound source entities and forms a composite room, such that a composite sound field is formed by the sound source entities.

- 64. (original) The earphone structure of claim 55, wherein the sound source entities at least comprise a first sound source signal and a second sound source signal, which are originated at both opposite sides of the composite chamber, respectively.
- 65. (original) The earphone structure of claim 64, wherein a position where the first sound source entity is originated at and a position where the second sound source entity is originated at both opposite sides of the composite chamber are not symmetrical.
- 66. (original) The earphone structure of claim 64, wherein the sound source entities further comprise at least a subwoofer sound source entity.
- 67. (original) The earphone structure of claim 66, wherein the subwoofer sound source entity is originated at a back side of the composite chamber.
- 68. (original) The earphone structure of claim 63, wherein the sound source entities are the signals which have been processed by a sound field simulation process for generating a simulation sound field in the composite chamber.
- 69. (original) The earphone structure of claim 68, wherein the sound field simulation process is designed based on a frequency-divided point of the sound source entities.

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70. (original) The earphone structure of claim 68, wherein the sound field simulation process is designed based on a frequency-divided point of the sound source entities and a delay process.